

Utah Weekly Pertussis Update

2014 data, through MMWR week ending May 16, 2015 (MMWR week 19)

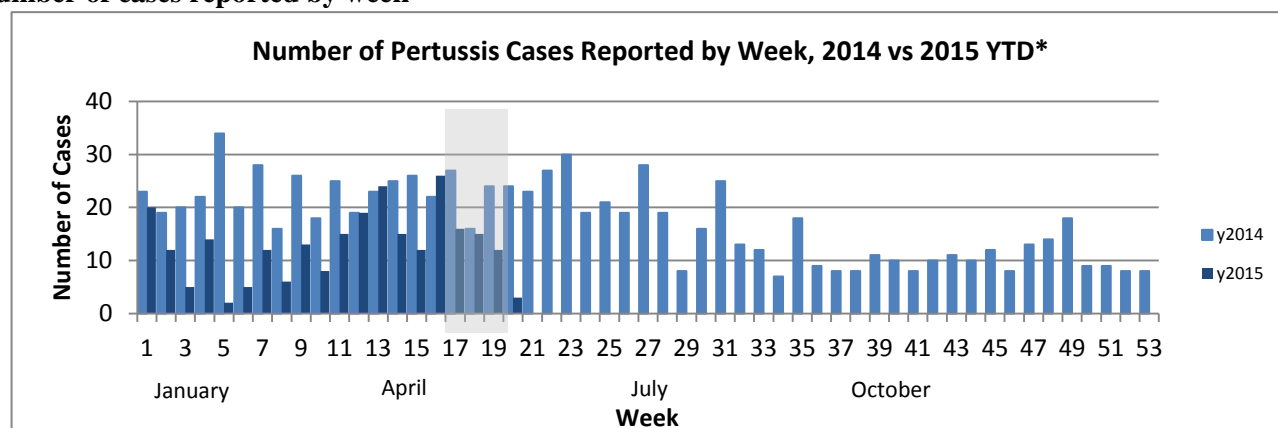
Data presented in this report are based on current data available and will be subject to change weekly.

Data Summary

Total number of cases reported, 2015 year-to-date (YTD)	223	Utah Incidence rate, 2015 year-to-date (YTD) per 100,000 person-years	20.6
Total number of cases reported 2014	926	Utah Incidence rate, 2014 per 100,000 person-years	31.9
Number of cases reported in past week	31	National Incidence rate, 2013 per 100,000 person-years (As of 11/12/2014) *Provisional	8.9
Total number of cases reported, through same time period 2014	433	2015 Hospitalizations	7
Age groups with the highest rates	<1 year	2015 Cases in infants <1 year	27
	1-4 year		

*National Incidence Rate is updated as released by the Centers for Disease Control and Prevention.

Number of cases reported by week



*Additional cases may have occurred, especially in the most recent 3 weeks that have not yet been reported, as indicated by the grayed out section of the graph above.

2015 Year-to-Date Incidence Rates, By Age

Age (years)	2015 Cases	2013 population	Rate*, **
<1	27	50,052	144.8
1-4	42	203,815	55.3
5-14	67	505,598	35.6
15-24	48	469,436	27.4
25-34	18	440,736	11.0
35-44	25	372,699	18.0
45-54	7	305,312	6.2
55-64	15	269,589	14.9
65+	5	283,635	4.7
Total	254	2,900,872	23.5

* Rate is calculated per 100,000 person years.

Infants less than 1 year of age have historically had the highest incidence rates of pertussis due to their susceptibility.

**2013 population estimate update as of 11/4/2014 rates may vary compared to previous reports.

School Age Incidence Rates, 2015 Year-to-Date

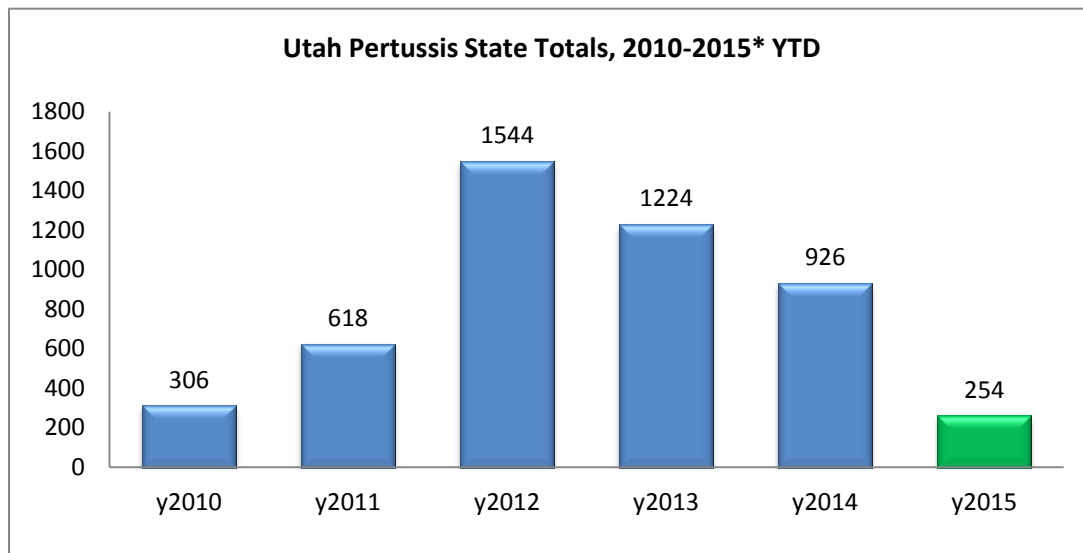
Grade	Age (years)	2015 Cases	2013 Population	Rate*
Preschool	3-4	102	103,602	264.2
Kindergarten	5	8	53,177	40.4
1	6	6	52,869	30.5
2	7	4	52,063	20.6
3	8	14	51,809	72.5
4	9	5	51,080	26.3
5	10	5	50,567	26.5
6	11	8	48,961	43.9
7	12	7	49,008	38.3
8	13	6	48,884	32.9
9	14	4	47,180	22.8
10	15	12	46,321	69.5
11	16	16	45,914	93.5
12	17	11	44,889	65.8

* Rate is calculated per 100,000 person-years

School age incidence rates were calculated using the average age of a student in each grade.

The high incidence rates in 5th and 6th grade may be due to waning immunity.

Utah Case Counts of Pertussis, 2008-2014



Pertussis tends to be cyclical. Reports have increased in Utah since 2010, peaked in 2012, and are currently trending downward.

* 2015 data includes pertussis cases reported year to date. 2010-2014 data reflects cases reported during the entire calendar year for each year.

Incidence of pertussis by Local Health Department, 2015 YTD

Local Health Department	2015 Cases	Rate*
Bear River	0	0.0
Central Utah	8	28.1
Davis County	24	20.0
Salt Lake Valley	54	13.4
San Juan County	11	197.2
Southeast Utah	1	6.5
Southwest Utah	3	3.8
Summit County	41	285.9
Tooele County	2	8.8
TriCounty	0	0.0
Utah County	36	17.5
Wasatch County	6	60.9
Weber-Morgan	29	31.3

* Rate is calculated per 100,000 person-years using 2013 Utah population estimates

